

HUNGARY / Farm animals. General Problems.

Q-1

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 45147

Author : I. Kurelec, Viktor

Inst : Not given

Title : The Determination of the Content of Digestible Proteins
in the Native Hay.

Orig Pub : Allattenyesztes, 1956, 5, No. 4, 341-349

Abstract : No abstract

Card 1/1

KERÉK, V.

KUBEL'CI, V. The nutritive value of ensiled broomcorn. p. 71. All-union conference on sheep breeding. p. 72.

Vol. 8, no. 2, Feb. 1956.

AGRARTUDOMÁNY.

AGRICULTURE

Budapest, Hungary

No: East European Accession, Vol. 6, No. 5, May 1957

KURELEC, V.

How should we use carbamide in forage? p. 23. (Magyar Mezogazdasag, Vol. 11, no. 6, Mar. 1956 Budapest)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Unclassified.

KURELECZ, V.

KURELECZ, V. Sowing maize seeds in sections. p. 16

Vol. 11, No. 10, May 1956

MAGYAR MEZAGAZDASAG

AGRICULTURE

Budapest, Hungary

SO: EAST EUROPEAN ACCESSIONS, VOL. 6, no. 3, March 1957

1956, 7

1956, 7, 1956, Jan. 1, 1956.

Vol. 1, p. 11, Jun 1956

1956, 7, 1956, Jun 1956.

1956, 7, 1956, Jun 1956.

1956, 7, 1956, Jun 1956.

HUNGARY/Farm Animals. Swine.

Q-2

Abs Jour: Ref Zhur - Biol., No. 22, 1958, 101176

Author : Kurelec, Viktor

Inst : -

Title : Weight Gains of Immature Sows Being Influenced
by Alfalfa Silage and Alfalfa Hay Flour.

Orig Pub: Allattenyesztes, 1957, 6, No. 1, 53-59

Abstract: For a period of 119 days, comparative experimental fattening were carried out on 108 immature sows the initial weight of which was about 51 kg. The first group received 0.5 kg of alfalfa silage (AS) daily, and the second group 0.2 kg of alfalfa flour (AF). As the sows' live weight reached the 80 kg level, and AS rations the 1.5 kg level, the animals'

Card 1/2

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HUNGARY/Farm Animals. Swine.

Q-2

Abs Jour: Ref Zhur - Biol., No. 22, 1958, 101176

appetite and AS consumption decreased. When AS rations were increased to 2.0 kg, the animals ate reluctantly. At the end of the fattening period, average weights per animal of the first group reached about 86 kg, and of the second group about 100 kg. Then both groups were fed AF. Appetite of the first group of animals improved, and they gained weight faster. However, they were still unable to reach the weight level of the second group animals.--
V.A. Kanzyuba

Card 2/2

HUNGARY / Cultivated Plants. Fodders.

M-4

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6
Abs Jour: Ref Zhur-Biol., No 8, 1958, 25085

Author : Kurelec, V.

Inst : Not given

Title : The Time for the First Mowing of Alfalfa

Orig Pub: Magyar mezogazd., 1957, 12, No 9, 15 (Hung.)

Abstract: No abstract.

Card 1/1

Chemical Abstracts
Vol. 48 No. 5
Mar. 10, 1954
Soils and Fertilizers

The decomposition of crop residues from perennial grasses and the influence of nitrogen fertilizers on the yield of spring wheat in relation to the time of plowing under the sod. A. V. Gubaidin, P. M. Smirnov, K. M. Khalov, V. I. Kurelenok, and V. E. Kurochikina. *Invest. Timiryazev. Nauch.-Tekhn. Akad.*, No. 2(3), 11-18 (1953). --It is shown that plowing under a sod crop in the early fall supplies more available N than plowing it under in late fall. In the latter case the N becomes avoed, with complex unhydrolyzable forms. Data are presented showing the increase in yield of spring wheat.
I. S. Joffe

KURSLENKO, V. I.

"A Second Crop of Winter Rye." Cand Agr Sci, Moscow Order of Lenin Agricultural Acad imeni K. A. Timiryazev, Moscow, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13)
SO: Sum. No. 598, 29 Jul 55

USSR/Cultivated Plants - Grains.

KVARTAL'NOY, L² I
Abs Jour : Ref Zhur - Biol., No 4, 1958, 15495

Author : V.I. Kurelenok
Inst : -
Title : The Grain Crop Harvest in Differently Constructed Crop
Rotations.
(Urozhay zernovykh kul'tur v sevootorotakh razlichnogo
postroyeniya).
Orig Pub : Dokl. Mosk. s.-kh. akad. im. K.A. Timiryazeva, 1956,
vyp. 23, 112-118.
Abstract : At the Experimental Station for Field Cultivation of the
Timiryazev Agricultural Academy a study was made in 1949
of 7-, 8-, and 9-field crop rotations of various con-
structions. The winter grain yield in the Central por-
tion of the non-chernozem soil belt proved hardier and
higher than the summer grain harvest. Averaging some 6
years the winter yielded a higher crop in comparison

Card 1/2

13-

STEPANOV, V.N., doktor sel'skokhozyaystvennykh nauk, prof.; NASONOVA, K. Ye.,
nauchnyy sotrudnik; KURELENOK, V.I., nauchnyy sotrudnik

Productivity of crop rotations specializing in grain and potatoes
in central regions of the non-Chernozem zone. Izv. TSKhA
no.3: 49-64 '60. (MIRA 14:4)
(Rotation of crops)

KEDER-STAPANOVA, I.A.; KURELLA, G.A..

Changes in respiratory rhythm following local stimulation of
inspiratory and expiratory centers [with summary in English]
Fiziol. zhur. 43 no.1:46-53 Ja '57. (MIRA 10:2)

1. Laboratoriya elektrofiziologii Klinicheskoy ordena Lenina bol'nitsy
im. S. P. Botkina, Moskva.
(RESPIRATION, physiol.
changes of rhythm in stimulation of resp. centers)
(MEDULLA OBLONGATA, physiol.
eff. of stimulation of inspiratory & expiratory centers
on resp. rhythm.)

CHERKASOV, I.A.; KUREMIA, G. .

Effect of efferent impulses on the activity of the inspiratory and expiratory centers of the medulla oblongata. [with summary in English]. Fiziol. zhur., 43 no.8:721-728 Ag '57. (SLRA 19:2)

1. Laboratoriya elektrofiziologii Klinicheskoy ordinarii Lenina "V. V. May im. S.P. Botkina, Moscow

(MMDULIA OBLONGATA, physiology,
eff. of efferent impulses on inspiratory & expiratory
centers (Rus))

KURELLA, G.A.

Method of manufacturing intracellular microelectrodes. Biofizika
3 no.2:243-245 '58. (MIRA 11:4)

1. Biologo-pochvennyy fakul'tet Moskovskogo ordena Lenina gosudarst-
vennogo universiteta im. M.V.Lomonosova.
(ELECTRODES) (ELECTROPHYSIOLOGY)

KURELLA, G.A.

Method of investigating the dynamics of rest potentials in single-muscle fibers. Biofizika 3 no.5:614-619 '58 (MIRA 11:10)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.
(MUSCLE, physiology)
rest potential dynamics, investigation on separate fibers (Rus.)

KURELLA, G.A.

Nature of the potential difference in a state of rest. Biofizika,
4 no.3:300-309 '59.
(MIRA 12:7)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.
(MUSCLES, physiol.
rest potential, nature & variability (Rus))

KURELLA, G.A.

Reversible depolarization of a single muscle fiber and pre-existence
of the resting potential. Biofizika 4 no. 6:650-656 '59.

(MIRA 14:4)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo
universiteta imeni M.V. Lomonosova.
(ELECTROPHYSIOLOGY) (MUSCLE)

LYAN ZY-TYUN¹; KURELLA, G.A.

Study of the resting potential of an isolated fiber of the
skeletal muscle in the frog. Biofizika 7 no.6:700-710 '62.
(MIRA 17:1)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo
universiteta im. M.V. Lomonosova.

VOROB'YEV, L.N.; KURELLA, G.A.; POPOV, G.A.

Intracellular pH of Nitella flexillis at rest and after
excitation. Biofizika 6 no.5:582-589 '61. (MIRA 15:3)

1. Biologo-pochvennyy fakultet Moskovskogo gosudarstvennogo
universiteta imeni Lomonosova.

(ALGAE)
(HYDROGEN-ION CONCENTRATION)

KURELLA, G.A.

Sorption theory of cellular permeability and the pre-existence of
rest potentials. Biofizika 5 no.3:260-269 '60. (MIRA 13:7)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta
im. M.V. Lomonosova.
(ELECTROPHYSIOLOGY) (PROTOPLASM)

KURELLA, G.A.; POPOV, G.A.

Determination of pH with the antimony microelectrode. Biofizika
5 no.3:373-375 '60. (MIRA 13:7)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta
im. M.V. Lomonosova.
(HYDROGEN-ION CONCENTRATION) (ELECTRODES)
(PHYSIOLOGICAL APPARATUS)

KURELLA, G.A.; LYAN ZY-TYUN'

Effect of changes in the Ca concentration in the medium on
the resting potential of an isolated skeletal muscle fiber
in frogs. Biofizika 10 no.1:72-81 '65.

(MIRA 18:5)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo
universiteta imeni Lomonosova.

БЕЛЛА, Г.А., СЫН ЗИ-ЧУН'

Relation between the resting potential of an isolated single muscle fiber and the osmotic pressure of medium. Biotekhnika
9 no. 1:78-85 1964.

(MIRA 17:2)

1. Biologo-pochvennyy fakultet Moscowvskogo gosudarstvennogo universiteta imeni Lomonosova.

KURELLA, G.A.

Physicochemical principles of the origin of resting potential difference. Trudy MOIP. Otd. biol. 9:74-82 '64.

(MIRA 18:1)

1. Kafedra biofiziki Moskovskogo universiteta.

ANDRIANOV, V.K.; KURELIA, G.A.

Studies on the nature of the rest potential in Nitella cells.
Report No.1: Relation of the magnitude of the rest potential
to the concentration of potassium ions in the medium and to
its osmotic pressure. Biofizika 8 no.4:457-460 '63.

(MIRA 17:10)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo
universiteta imeni Lomonosova.

Al'pin, V. N., *Biofizika*, 1965, v. 10, no. 3.

Changes in the potential of Nitella cells under light and the resulting
photosynthesis

SOURCE: *Biofizika*, v. 10, no. 3, 1965, 531-533

TOPIC TAGS: algae, photosynthesis, cell resting potential, cell potential, Nitella

ABSTRACT: Experiments were conducted to determine the influence of light on the resting potential (RP) of *Nitella flexilis* aliae and the resulting effect on photosynthesis.

Algae cells were subjected to various light levels and after prolonged illumination, changes in the RP and the photosynthesis of cells into light of different intensity were measured with "microelectrodes." The light source was a 20-w incandescent bulb with a set of optical filters and a gel filter. The change in RP was measured at different light levels. The effect of light intensity, but only up to a certain level (3000 lux). A typical curve of change in RP value is shown in the figure, together with a graph of the photosynthetic rate. In the lower graph, note the increase in the rate of photosynthesis with the increase in the measured resting potential.

REF ID: A65653

luminous illumination and light intensity. The fact that the RF value changed during illumination of cells with red light (wavelength, 610 m μ), which can be influenced only by chlorophyll and analogous pigments, indicates the presence of

chlorophyll in the plant.

Chlorophyll content

Card 2/3

L. M. Kholodenko

1. DOBSCHE BR AP5015653

ENCLOSURE 01

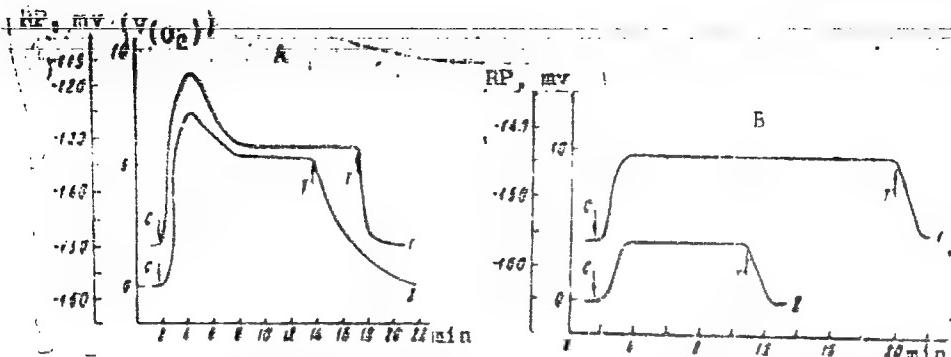


Fig. 1. Time curves of the change of the resting potential (RP) and the photosynthesis rate during illumination of cells with white light

Illumination: A - \rightarrow 4000 lux, B - \leftarrow 2000 lux; 1 - change of the RP value; 2 - change of the photosynthesis rate expressed by the rate oxygen (v_{O_2}) is given off in relative units; C - moment of switching on of light; T - moment of switching off of light.

1. *Antifreeze*, *Anticorrosion*, *Electrolyte*, *Gum*, *Hydraulic*

*Biological activity of potassium salts in the cell lines of *Actinella*
and *Micrococcus luteus*. Biomedika 10 no.34530-334 1975.*

(V. 22, p. 11)

*1. Biological activity of potassium salts in the cell lines of *Actinella*
and *Micrococcus luteus*. Biomedika 10 no.34530-334 1975.*

VOROB'YEV, L.N.; KURELLA, G.A.

Participation of cell membrane in the selective ion accumulation
by the cells of *Nitella mucronata*. Biofizika 10 no.51788-795
'65. (MIRA 18:10)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo
universiteta imeni M.V.Lomonosova.

ANTONOV, V.F.; KURELLA, G.A.; MEGUCHINEN, I.P.; UBAKOVICH

Effect of sodium, potassium and chlorine ions on the difference of potentials between the medium, cytoplasm and nucleus of cells of the salivary gland in *Drosophila* larvae. Dokl. AN SSSR 161 no. 3(691-693) Mr '65.

1. Moskovskiy gosudarstvennyy universitet. Submitted June 16, 1964.

ANDRIANOV, V.K.; KURELLA, G.A.; LITVIN, F.F.

Light effect on the change in potential of Nitella cells and
relation of this effect to photosynthesis. Biofizika 10
no.3:531-533 '65. (MIRA 18:11)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo
universiteta imeni Lomonosova. Submitted Aug 4, 1964.

ANTCNOV, V.F.; KURELLA, G.A.; YAGLOVA, L.G.

Distribution of Na^{22} between cytoplasm and nucleus in the
giant neurons of *Tritonia diomedea* Bergh. Biofizika 10
no.6:1087-1088 '65. (MJE 19:1)

1. Biologo-pochvennyy fakultet Moskovskogo gosudarstvennogo
universiteta imeni M.V.Lomonosova. Submitted March 20, 1966.

KURELLA, M.V.

Analysis of motor organs in infectious nonspecific polyarthritis and
its significance in the selection of a method of exercise therapy.
Vop.kur., fizioter. i lech.fiz.kul't. no.4:48-56 O-D :55.

1. Iz otdela lechebnoy fizicheskoy kul'tury (zav. - prof. V.V.
Gorinevskaya) Nauchno-issledovatel'skogo instituta fizioterpii
Ministerstva zdravookhraneniya RSFSR (dir. - prof. A.N. Obrosov).
(ARTHRITIS, RHEUMATOID, therapy,
exercise ther., selection of method)
(EXERCISE THERAPY, in various diseases,
rheum. arthritis, selection of method)

KURELLA, M.V., nauchnyy sotrudnik

Methodical principles and trends in the use of physical culture therapy on children with poliomyelitis. Pediatris no.3:31-36 Mr '57.
(MIRA 10:10)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta fizioterapii Ministerstva zdravookhraneniya RSFSR (dir. - prof. A.N. Obrazcov)

(PHYSICAL THERAPY) (POLIOMYEITIS)

KURELIA, T., rod.

[Boundless horizons] Bezbrezhnye gorizonty. Moskva, Pravda,
1965. 62 p. (Biblioteka "Komsomol'skoi pravdy," no.8)
(MIRA 18;8)

KURGILYUK, B. A., MIN. ENG.

Mine Timbering

Supporting work with slag blocks in mines. Gor. zhur. No. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASS.

1. KURELYUK, B. A.
2. USSR (600)
4. Mining Engineering
7. Continuous clearing work. Gor zhur No 12 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

KURELYUK, B.A.; KHAMBIN, M.P.

Using detonite 10A in underground operations at the
Krasnogvardeysk Mine. Vzryv. delo no.55/12:121-125 '64.

(MIRA 17:10)

1. Krasnoural'skiy medeplavil'nyy kombinat.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927710009-6

KUREMBINA, A.I., meditsinskaya sestra (Moskva)

Duodenal exploration. Med.sestra 15 no.10:19-20 o '56. (MIRA 9:12)
(MEDICAL INSTRUMENTS AND APPARATUS) (BILH)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927710009-6"

KUREN', I.N., elektromenter (Sochi)

Redesigning of the starters of high-pressure mercury lamps.
Energetik 13 no.11:28 N '65. (MIRA 18;11)

Изобретение № 3.

KOMAROV, M.S., doktor tekhnicheskikh nauk, professor; KURENDASH, R.S.,
kandidat tekhnicheskikh nauk, dotsent.

An electric-drive vibrating saw. Vest.mash. 35 no.10:69-70 0 '55.
(Saws) (MLRA 9:1)

PLEASE I BOOK EXPLOITATION 1061

Kurendash, Rostislav Stefanovich

Konstruirovaniye pruzhin (Design of Springs) Kiyev, Mashgiz, 1958. 106 p.
11,600 copies printed. (Series: Biblioteka konstruktora)

Sponsoring Agency: Nauchno-tehnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Kiyevskaya oblastnaya organizatsiya

Reviewer: Radchik, A.S., Candidate of Technical Sciences, Docent; Ed.: Leuta, V.I.,
Engineer; Tech. Ed.: Rudenskiy, Ya.V. Chief Ed. (Ukrainian Division, Mashgiz):
Serdyuk, V.K., Engineer.

PURPOSE: This book is intended for technicians and designers in the field of machine and instrument manufacture.

COVERAGE: The book deals with the classification, basic calculations and practical recommendations for design of helical, spiral, straight, curved and shaped springs for general use; current data on materials used for springs are also given. The name of Professor S.D. Ponomarev, Doctor of Technical Sciences, of the Moskovskoye vyssheye tekhnicheskoye uchilishche imeni N.Ye. Baumena (Moscow Higher Technical School imeni N.Ye. Baumena), is mentioned in connection with the development of

Card 1/3

Design of Springs 1061

spring design in the USSR. The author thanks Professor M.S. Komarov for his help in preparing the book. There are 9 references, of which 6 are Soviet, 1 English and 2 German.

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Design of Springs 1061

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1-26-59

IVANOV, Mikhail Nikolayovich, prof., doktor tekhn.nauk; KOMAROV,
Mikhail Stepanovich, prof., doktor tekhn.nauk; DOBROVOL'SKIY,
V.A., prof., ret.zenzent; KURENDASH, R.S., dotsent, kand.tekhn.
nauk, otv.red.; KOTLYAROV, Yu.L., red.; MALYAVKO, A.V., tekhn.red.

[Machine parts and hoisting and conveying machinery] Detali
mashin i podzemno-transportnye mashiny. L'vov, Izd-vo L'vovskogo
univ., 1961. 587 p. (MIRA 15:2)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana
(for Ivanov). 2. L'vovskiy politekhnicheskiy institut (for
Komarov). 3. Odesskiy politekhnicheskiy institut (for Dobrovolskiy).
(Hoisting machinery) (Conveying machinery)

KOMAROV, Mikhail Stepanovich; KURENDASH, R.S., kand. tekhn.nauk,
red. vypuska; FUER, P.Ya., red.; GODNOSTAYPOL'SKAYA, M.S.,
tekhn. red.

[Loads of industrial machinery] Nagruzki proizvodstvennykh ma-
shin. Moskva, Mashgiz, 1962. 80 p. (MIRA 15:11)
(Machinery)

KOMAROV, Mikhail Stepanovich; KURENDASH, R.S., red. vypuska;
FUHER, P.Ya., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Designing machinery] Kak konstruiruiut mashiny. Moskva,
Mashgiz, 1963. 73 p. (MIRA 16:7)
(Machinery—Design and construction)

GLUSHCHENKO, I.P., kand. tekhn. nauk, dotsent; KURENDASH, R.S., kand. tekhn. nauk, dozent; SOPIN, V.I., kand. tekhn. nauk

Book reviews and bibliography. Vest. mashinostr. 45 no.1:
85-88 Ja '65. (MIRA 18:3)

KURELEV, M. N.

"Graphic aids in the study of chemistry in an institution of higher learning,"
Authors: G. P. DEVIDER'YEV, V. Ya. KURELEV, N.I. PUSHKINA, and K.A. SHAPOSHNIKOVA,
Trudy Kazansk. Khim.-tekhnol. in-ta im. Kirova, issue 13, 1949, p. 115-25

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949).

KURENEV, S.I., dotsent, kandidat tekhnicheskikh nauk (Leningrad).

Calculating circuits in periodic breaking or impulse voltages. Elektricheskvo
no.12:59-62 D '53.
(MLRA 6:11)
(Electric circuits)

KURENEV, S.I., doktor tekhnicheskikh nauk, dotsent (Leningrad)

Representation of the magnetic field of circular currents by spheroid
functions. Elektrichesstvo no.6:9-10 Je '56. (MLRA 9:9)
(Magnetic fields)

KURENEV, S.I., dokter tekhnicheskikh nauk, detsent; MEYEROVICH, E.A., dokter tekhnicheskikh nauk, professor; VORONOV, R.A., dokter tekhnicheskikh nauk, dotaent; PONOMAREVA, G.F., kandidat tekhnicheskikh nauk, detsent; IONKIN, P.A., kandidat tekhnicheskikh nauk, detsent.

Methoda for calculating nonlinear circuits. Elektrichestvo no.8:91-92
Ag '56. (MLRA 9:10)

1.Kafedra Vojenne-morskey akademii imeni Krylova (for Kurenev). 2.Buergerticheskiy institut imeni Krzhizhanovskogo AN SSSR (for Meyerevich).
3.Moskovskiy energeticheskiy institut imeni Molotova (for Ienkin).
(Electric circuits)

KURENNYI, Sergey Ivanovich, doktor tekhn. nauk, dots.

Calculating the magnetic field, the static self-inductances, and
the static mutual inductance of elliptic circuits. Izv. vys.
ucheb. zav.; elektromekh. 1 no.3:30-34 '58. (MIRA 11:6)

1. Zaveduyuchshiy kafedroy teoreticheskikh osnov elektrotehniki
Leningradskogo elektrotekhnicheskogo instituta imeni V.I. Ul'yanova
(Lenina).
(Electric circuits) (Magnetic fields) (Inductance)

ALEKSEYEV, A.Ye.; ATABEKOV, G.I.; BRON, O.B.; GORODSKIY, D.A.; KOSTENKO, M.P.; KURELEV, S.I.; NEYMAN, L.P.; POLIVANOV, K.M.; REYNGOL'DT, Yu.A.; ROMANOVSKIY, V.B.

Professor A.E. Kaplianskii; on his 60th birthday. Elektriches'tvo no.6:92 Je '58. (MIRA 11:6)
(Kaplianskii, Aleksandr Evseevich, 1898-)

6,4800

AUTHORS:

Kurenov, S.I., Doctor of Technical Sciences,
and Volkov, M.G., Candidate of Technical Sciences, Professor
of an External Uniform Static Field by That

TITLE:

Screening of an External Uniform Static Field by That
of an Elliptical Cylinder

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Elektromekhanika, 1960, No.8, pp.3-7

TEXT: Previous treatments of the screening effect of enclosures have ignored the influence of shape. The magnetic case is dealt with here. Elliptical coordinates. The length are used, related to cartesians as in Fig.1. The next general solutions. Laplace's equation is long compared with its other dimensions. The cylinder is supposed Eq.(2). Two principal cases are then considered: For an external uniform field $\lambda = 1$ and the solution to Eq.(3). For an either x or y-axis. splits the entire field into three regions and the ferromagnetic layer solutions for scalar potential are given in Eq.(6). There are six constants of integration. Four of them are determined, Eq.(7), by the continuity of potential and normal component of the magnetic

83325

S/144/60/000/008/001/003
E041/E455

Screening of an External Uniform Static Field by That of an
Elliptical Cylinder

induction vector in passing from one medium to another. The fifth condition is given, in the third region, by the fact that the potential is analytic at infinity. The sixth boundary condition is given by the fact that, in the first region, the potential tends to zero when the permeability of the magnetic shield tends to infinity. The screening coefficient, defined as the number by which the external field must be multiplied to give the internal field is K_{yx} in Eq.(9). The corresponding formula for y-axis magnetization is K_{yy} in Eq.(11). The difference formula of Eq.(12) shows the screening along the smaller axis to be less effective than that along the larger. Examination of the formulae for the coefficients shows that $0 \leq K_{yx} \leq 1$ while $0 \leq K_{yy} \leq 2$. The latter result rather surprisingly shows that for certain cylinders and values of permeability, the screen concentrates the field within it. The effect is indicated graphically in Fig.2. The field components within the enclosure, given by Eq.(14), are uniform. There are 2 figures and 1 Soviet reference.

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Card 2/3

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S/144/60/000/008/001/003
E041/E455

Screening of an External Uniform Static Field by That of an
Elliptical Cylinder

ASSOCIATIONS: Leningradskiy elektrotekhnicheskiy institut
(Leningrad Electrical Engineering Institute)
Voyennoc-morskaya akademiya (Naval Academy)

SUBMITTED: May 25, 1960

Card 3/3

85105

9,3100 (1631, 1144, 1159)

S/105/60/000/009/008/009/XX
B012/B058

AUTHORS: Kurenay, S. I. Doctor of Technical Sciences, Professor,
and Pines, M. I. Candidate of Technical Sciences Docent

TITLE: Determination of the Initial Conditions for Studying
Transients in the Case of a Change of the Circuit Structure

PERIODICAL: Elektricheskoye, 1960, No. 9, pp. 45-49

TEXT: In this paper, a general method is given for determining the independent initial amperages in induction coils and the capacitor voltages in the case of transients, that is, for transients developing at a change of circuit structures. It is pointed out that the solution of the problem can be used for the calculation of transients by means of electronic computers. The problem under discussion was studied in the years 1953-1954 at the kafedra Teoreticheskikh osnov elektrotehniki Leningradskogo elektroteknicheskogo instituta im. Ul'yanova (Lenina) (Chair of Theoretical Principles of Electrical Engineering at the Leningrad Electrotechnical Institute imeni Ul'yanov (Lenin)) under the direction of Professor A. V. Berendeyev. When investigating and calculating transients

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Determination of the Initial Conditions for
Studying Transients in the Case of a Change
of the Circuit Structure

S/105/60/000/009/005/009/XX
B012/B058

at the disconnection or connection of individual lines, a mathematical consideration of the changing contact resistance is not possible. It is neither possible to determine the duration of opening or closing of the contact. In connection with these difficulties the transient to be divided into two stages is briefly explained. It is shown that the calculation can be simplified on the basis of the following considerations: 1) The commutation time can be assumed as being very small compared to the time constant of the circuit and the a.c. cycle; 2) during commutation the sources feed practically no energy into the circuit - thus, only an internal re-distribution of the energy fields occurs; 3) the energy transformation takes place under observance of the theorem on the conservation of electricity and the theorem of electromagnetic induction. Formulas are derived, which determine the continuity of the changes in interlinkage: in every closed circuit of an electric circuit the algebraic sum of interlinkages of all individual circuit sectors in the first moment after commutation is equal to the algebraic sum of interlinkages of the sectors of this circuit in the last moment before commutation. The digit sign of interlinkage in each sector is determined by the direction of the

Card 2/3

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Determination of the Initial Conditions for
Studying Transients in the Case of a Change
of the Circuit Structure

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current in this sector. Next, formulas are derived, which determine the continuity of the charge variations, in the first moment after commutation. the algebraic sum of capacitor charges in the lines leading to the circuit joint equals the algebraic sum of capacitor charges in the lines leading to this joint in the last moment before commutation. The digit sign of the charge is also determined by the direction of the current in this line. It is pointed out that the equations obtained for the interlinkages and charges do not contradict the commutation theorems but rather supplement them. In the case of a quick change of the circuit structure the equations given here make it possible to determine the initial amperages in coils and the initial capacitor voltages in the beginning of the second stage of the transient without having to investigate the first, short stage. The paper by M. A. Rozenblat (Ref. 1) is mentioned. There are 6 figures and 5 references: 3 Soviet, 1 US, and 1 Australian.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. Ul'yanova
(Lenina) (Leningrad Electrotechnical Institute imeni Ul'yanova
(Lenin))

SUBMITTED: February 3, 1960

KURENEV, SERGEY IVANOVICH, doktor tekhn.nauk, prof.

Effect of the shielding envelope on the structure of the magnetic field. Izv. vys. ucheb. zav.; elektromekh. 4 no.5 :3-6 '61.
(MIRA 14:7)

1. Zaveduyushchiy kafedroy teoreticheskikh osnov elekrotekhniki Leningradskogo elekrotekhnicheskogo instituta.
(Magnetic fields) (Shielding (Electricity))

KURENEV, Sergey Ivanovich, doktor tekhn. nauk, prof.; VOLKOV, Mikhail Grigor'yevich, kand. tekhn. nauk, nauchnyy sotrudnik

Shielding of an external field by a hollow flattened ellipsoid.
Izv. vys. ucheb. zav.; elektromekh. 6 no.9:1027-1031 '63.
(MIRA 16:12)

1. Zeveduyushchiy kafedroy teoreticheskikh osnov elektrotehniki Leningradskogo elektroteknicheskogo instituta (for Kurenev).
2. Vojenno-morskaya akademiya (for Volkov).

KURELEV, V.Ya.

Absorption of meter waves by some gases. Trudy KKHTI no.13:14-18
'48.
(MIRA 12:12)

1.Kazanskiy khimiko-tehnologicheskiy institut im. S.M. Kirova,
kafedra obshchey i neorganicheskoy khimii.
(Gases) (Spectrum, Molecular)

KURENEV, V.Ya.

Absorption of meter waves by some gases. Trudy EKHTI no.13:19-27
148. (MIRA 12:12)

1.Kazanskiy khimiko-tehnologicheskiy institut im. S.M. Kirova,
kafedra obshchey i neorganicheskoy khimii.
(Gases) (Spectrum, Molecular)

DEZIDER'YEV, G.P.; KURENEV, V.Ya.; PUSHKINA, N.N.; SHAPOSHNIKOVA, N.A.

Visual aids for studying chemistry in institutions of higher learning. Trudy KKHTI no.13:118-125 '48. (MIRA 12:12)

1.Kazanskiy khimiko-tehnologicheskiy institut im. S.M. Kirova,
kafedra neorganicheskoy khimii.
(Chemistry--Study and teaching) (Audio-visual aids)

KURENEV, V. Ya.
CA

Paramagnetic resonance absorption in crystalline powders of some rare earth compounds. S. A. Altshuler, V. Ya. Kurenev, and B. G. Salikhov. *Doklady Akad. Nauk S.S.R.*, 70, 201-4 (1950); cf. preceding abstr.—The energy, Ω , absorbed as a function of a const. magnetic field H , 300-3000 oersteds, superposed perpendicularly on a weak magnetic field oscillating at $v_1 = 6.75 \times 10^9$ hertz, was detd. by the method of reaction on the generator. Curves with a max. were found with $\text{Pr}(\text{SO}_4)_2 \cdot 8\text{H}_2\text{O}$, $\text{Pr}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$, and anhyd. $\text{Pr}(\text{SO}_4)_2$. For the last 2 salts, the position of the max. is the same, $H = 1300$; dehydration shifts it to 700 oersteds. This confirms that the cubic symmetry of the cryst. elec. field in the hydrated sulfate and nitrate is due to H_2O mol., and that dehydration lowers the symmetry of that field. Likewise, the curves of $\text{Nd}(\text{SO}_4)_2 \cdot 8\text{H}_2\text{O}$ and $\text{Nd}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$ nearly coincide; however, the position of the common single max., 700 oersteds, cannot very well be taken to indicate cubic symmetry of the cryst. elec. field, as a calcn. of the

transition probabilities between sublevels of Nd^{+++} in a cubic field predicts a series of lines of almost equal intensities. The same difficulty obtains with $\text{Er}(\text{NO}_3)_3 \cdot 8\text{H}_2\text{O}$, max. at $H = 600$. $\text{Ce}(\text{CO}_3)_3 \cdot 3\text{H}_2\text{O}$ has a max. at $H = 700$, as against $H = 1650$ calcd. for the main max. for cubic symmetry; however, if a rhomboic field is assumed to be superposed on the main cubic field, that line cannot appear except at very high H , and only the actually observed max. can be expected in the given range of H . The curve of Sm_2O_3 has a max. at $H = 1400$, the theoretical interpretation of which is not clear. At $v_1 = 2.38 \times 10^9$ hertz, the curves retain the same shape, only the maxima are shifted v_1/v_2 times to lower H . N. Thor $\gamma\text{-Fe}_2\text{O}_3$ and high frequency. Friedrich Wagenknecht (Tech. Hochschule, Prag). *Naturwissenschaften* 30, 57 (1949).—Owing to its high elec. resistance (10^6 ohm cm.) and its semiconductor properties $\gamma\text{-Fe}_2\text{O}_3$, regular or spinel type, retains its ferromagnetism in a high-frequency a.c. field. From a limiting frequency (500 to 1000 kilohertz) on, the real permeability and the magnetic-loss angle begin to change. Frequencies up to 3331 kilohertz were used. The prens. of highest permeability were obtained from magnetites by the Haber and Kaufmann method (*Z. Elektrochem.* 7, 733 (1900)). Other means of prepn. gave lower permeability products.

B. J. C. van der Hoeven

(✓) The paramagnetic resonance absorption in the sulfates of cerium(III) and neodymium(III). V. Ya. Kurnevy and A. G. Salkhuy. (Phys.-Tech. Inst. Kazan Branch Acad. Sci. USSR.), Zhur. Eksp. i Teor. fiz. 21, 801-8 (1951).—The paramagnetic resonance absorption has been detd. for the nonhydrated sulfates of Ce⁺⁺⁺ and Nd⁺⁺⁺ and for the sulfates contg. 8 mols. of water of hydration. The frequency of the magnetic field was 2.38×10^9 and 6.75×10^9 hertz. At room temp. all of the substances have a single max. except Ce₂(SO₄)₃.8H₂O. At the b.p. of liquid O₂ all of the substances exhibit 2 max. J. Rovtar Leach.)

BB

Q

*CA AL'IAKHOV V. M.**General & Technical
Kennedy 2*

Paramagnetic resonance absorption in metals. S. A. Al'tshuler, V. Ya. Kurenov, and B. G. Salikhov (Phys.-Tech. Inst., Katan Branch Acad. Sci. U.S.S.R.). *Doklady Akad. Nauk S.S.R.* **54**, 677-9 (1952). - The effect was studied in metal powders, in some instances dild. with a diamagnetic powder, with a weak alternating magnetic field of a frequency of 2.38×10^8 herTZes, and a perpendicular static magnetic field H of from 20 to 1000 oersted. All samples were strictly tested for absence of ferromagnetic impurities. The effect, with one peak of the curve of the paramagnetic absorption coeff. χ' as a function of H , was found in 8 transition metals; the exptl. data (static al. susceptibility $10^8 \chi_0$, $H_m = H$ corresponding to max. ab. sorption $\delta =$ right-hand half width = $(H_{\text{av}} - H_m)$) are: Ti, 130, 70, 205; V, 200, 70, 270; Cr 100, 10, 210; Mn, 127, 10, 245; Nb, 121, 100, 243; La, 140, 10, 140; Ce, 200, 10, 150; W, 10, 10, 150. The g-factors, calc'd. by $gH_m = h\nu$, are ~ 2 , with a scattering of 30%, which is well beyond the uncertainty of the measurements. Evidently, the zone approach is insufficient, and spin-orbital interaction is essential. The effect was not observed in Na, Mg, Al, Cu, Zn, As, Se, Ag, Cd, Sn, Hg, and Bi, possibly because of insufficient sensitivity.
N. Thor

KURENEVA, V. I. and USHAKOVA, L. I.

"Experiments With Professor Chernokhovostov's Method for Treating Children With Chronic Dysentery," Avtoreferaty Dokladov 19-y Nauchnoy Sessii Saratovskogo Gosudarstvennogo Meditsinskogo Instituta, Saratov, 1952, pp 235, 236.

BUDUNOVA, V.A. (Saratov); SHOLPO, G.P. (Saratov); KURENEVA, V.I. (Saratov);
MARKELOVA, Ye.F. (Saratov)

Treatment of chronic dysentery in specialized institutions for
infants. Vop. okh.mat. i det. 4 no.2:62-63 Mr-Ap '59.

(DYSENTERY) (CHILDREN--HOSPITALS) (MIRA 12:5)

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APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927710009-6"

G. M. Kriegsmann

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6719
REFERENCES:
Chitakota, T., T. J. Bolopionk, R. A. Corrington, Robert
A. Clegg, Thunavara, T. G., Kurnikova, I. I., Kurnikov,
U.S.S.R.

TITLE: Polymerization of Diene and Olefins Under the Action of
Cobalt Oxide and Diethyl Aluminim Salts, and a Study of
the Structure of Polymers

PUB. JOURNAL: Doklady Akademii Nauk SSSR, 1959, Vol. 123, Br. 5,
pp 1060 - 1070 (MSSR)

ABSTRACT: The authors supply data concerning the polymerization of
dienes butadiene, isobutylene, pentadiene-1,1, and 2-vinyl
methyl butadiene, as well as dienes substituted with
methyl acrylate, styrene in the presence of cobalt oxide
($C_2H_5CO_2Co_2$), Al_2O_3 , and diethyl aluminum chloride or
ethyl aluminum bromide. The catalyst contained either 7-7.5%
or 6.7% of Co. The latter content refers to cobalt oxide as
O and 4% in different ratios between cobalt oxide and di-
ethyl aluminum halide (concentration 2.5-2.5 of weight per
cent referred to the monomer). Oxygen and humidity were
kept off. In the polymer produced the content of 1,3-
5- and 1,4-diene and trans-2-butene was determined by IR-
spectroscopic measurements (paper taken by E. V. Mihaylo-
va). The maximum was determined on the basis of the
reaction with iodine chloride (Ref. 7). The purification
temperature was determined according to A. S. Maruy (Ref. 8).
Under standard conditions butadiene is rapidly polymerized
already at 0°. Cobalt oxide and aluminum chloride retard Poly-
merization to some extent. The polymers retained exhibit
a degree of unsaturation which is 91.5% of theory. This
points to the absence of secondary reactions with the double
bonds of the polymer. Butadiene polymers have fairly
regular structure. On cobalt oxide diethyl carrier
the content of the 1,3-dienes are 50%, the total amount
of the 1,4-dienes are 95-97%. By the use of steric factors
in the 1,4-diene-polymer. By the use of steric factors being

Card 1/4

The authors supply data concerning the polymerization of
diene butadiene, isobutylene, pentadiene-1,1, and 2-vinyl
methyl butadiene, as well as dienes substituted with
methyl acrylate, styrene in the presence of cobalt oxide
($C_2H_5CO_2Co_2$), Al_2O_3 , and diethyl aluminum chloride or
ethyl aluminum bromide. The catalyst contained either 7-7.5%
or 6.7% of Co. The latter content refers to cobalt oxide as
O and 4% in different ratios between cobalt oxide and di-
ethyl aluminum halide (concentration 2.5-2.5 of weight per
cent referred to the monomer). Oxygen and humidity were
kept off. In the polymer produced the content of 1,3-
5- and 1,4-diene and trans-2-butene was determined by IR-
spectroscopic measurements (paper taken by E. V. Mihaylo-
va). The maximum was determined on the basis of the
reaction with iodine chloride (Ref. 7). The purification
temperature was determined according to A. S. Maruy (Ref. 8).
Under standard conditions butadiene is rapidly polymerized
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a degree of unsaturation which is 91.5% of theory. This
points to the absence of secondary reactions with the double
bonds of the polymer. Butadiene polymers have fairly
regular structure. On cobalt oxide diethyl carrier
the content of the 1,3-dienes are 50%, the total amount
of the 1,4-dienes are 95-97%. By the use of steric factors
in the 1,4-diene-polymer. By the use of steric factors being

Card 2/4

elucidated. Finally the content of the 1,3-dienes in the butadiene
polymers due to the high content of 1,3-dienes in the polymer
diane has a low purification temperature (does not go to 115°).
Styrene is polymerized more easily and at higher temperatures
(at about 10°) as compared to butadiene. The two polymers
produce runs more slowly with the use of diethyl aluminum
chloride. It may be observed from table 1
that the structure of polyisoprene and the purification temper-
ature are not changed significantly by the incorporation of
the aluminum chloride. Not by the fact that the content of
butadiene and diethyl aluminum chloride is large. Large amounts
(17-18%) of isopropenyl side-groups increase the purification
temperature of 1,3-polymer considerably. Total con-
tent of 1,3-dienes in about 90% their major part is in the
cis position. Further strand retardation of polymeriza-
tion is caused mainly in the substitution of polymer
butadiene diethyl aluminum chloride at room temperature and does
not do more than carbonyl-like acetate. Neither styrene
nor methyl styrene are polymerized by the procedure de-
scribed.

Finally the authors state that an addend hydro-
carbon products are formed in the interaction between co-
balt oxide and diethyl aluminum chloride. There are 1 table and 9 references, 5 of which are Soviet.
ASSOCIATION: Institute of Synthetic Polymers
of the USSR (Institute of High Molecular Compounds of the Academy
of Sciences [BSSR])

SUBMITTER: September 5, 1959
Card 3/4

Card 4/4

307/4982
International symposium on macromolecular chemistry, Moscow, 1960.

Natsional'nyy simpozium po makromolekulyarnyyi SSR, Moskva, 12-18 Iyunya 1960 g. po doklady i sverzhaniyakh. Sotsial'nyy i. (International Symposium on Macromolecular Chemistry held in Moscow, June 12-18, 1960; Papers and Summaries - Section 1.) [Moscow, Izd-vo Akad. Nauk SSSR] 1960. 346 p., 5,500 copies printed.

Sponsoring Agency's The International Union of Pure and Applied Chemistry, Commission on Macromolecular Chemistry.

Tech. Ed. T. V. Polyakova.

Purpose: This collection of articles is intended for chemists and researchers interested in macromolecular chemistry.

CONTENTS: This is Section 1 of a multi-volume work containing scientific papers on macromolecular chemistry in Moscow. The material includes data on the synthesis and properties of polymers, and on the processes of polymerization, copolymerization, polymerization, and polymerization. Each text is presented in full or summarized. There are 47 papers, 28 of which were presented by French, English, and Russian. There are Czechoslovakian scientists. No personalities are mentioned. References accompanying individual articles.

Mlyskova, Ie. I., B. A. Bolgolokot, Z. G. Churikova, and M. Kostylevskaya, on <u>Effectiveness and a Study of Their Structure and Properties of Cross-linked Polymers</u> . 13	Method of Preparation of Polymers and Their Characteristics 44
Fogel'son, Ye., G. V. Potekhin, Yu. M. Strel'tsov, <u>Analysis of Cross-Polymerization of Branched Polyacrylates</u> (USSR). Synthesis and 47	Analysis of Cross-linking 72
Bondarenko, N., J. Mergia, A. Stejnachek, and T. Drinic, <u>(Czechoslovakia). The Structure of Branched Crosslinked Polymers</u> , 50	Properties of Poly- α -Methylene and Poly- β -Methylene 90
Zilberman, Ya., I. V. Likhachev, and R. M. Terpilovskiy (USSR). New Methods of Preparation of Polymers and Their Characteristics 46	Cyclic Polymerization and Copolymerization of Poly- α -Methylene 90
Bondarenko, N., and A. Stejnachek (Czechoslovakia). Analysis of Cross-linked Polyesters 72	Aromatic Polyesters and Their Properties 101
Vashchenko, I., Ye. V. Vasil'yeva, N. G. Petrenko, L. V. Fomichev, and G. G. Glazkovskiy (USSR). On the Synthesis and Properties of Poly- α -Methylene 72	Synthesis of Cyclic Polyesters 108
Mazurov, N. N., <u>Effect of the Type of Poly-α-Methylene and Poly-β-Methylene on the Properties of Branched Polyacrylates</u> (USSR). Cyclic Polymerization and Copolymerization of Diisobutylene 112	Aromatic Polyesters and Their Properties 108
Kolomnikov, G. S., Ye. V. Vashchenko, and I. A. Privalov, <u>(USSR)</u> . Synthesis of Cyclic Acetone Polyacrylates 118	Polymerization of Poly-functional Compounds 125
Solntsev, O., P. M. Dzhelyal, E. Abramchuk, and M. Gurevich (USSR), <u>Polymerization of Vinylchloride in the Presence of Butylithium and Titanium Chloride Type Catalysts</u> 131	Effect of the New Type of Linear Polymers by the Reaction of Poly- α -Methylene and β -Iodoacetone (USSR). On the Preparation of Organosilicon Polymers on a Complex Catalyst (C_2H_5) ₂ Al+LiCl 141
Kolomnikov, G. S., S. L. Goryainov, and Ye. V. Shishkov, <u>(USSR)</u> . Formation of Chemically Structured α -Iodo, β -Iodo, α -Bromo, β -Bromo, and γ -Bromo Acetone Polymers 146	Organosilicon Structure on the Polymerization Activity of the Inactivated Poly- α -Methylene (USSR). The Effect of Organosilane Compounds on the Polymerization Activity of the Inactivated Poly- α -Methylene (USSR). Cooperative Processes in the Polymers 167
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49

*Kuren'gina, T. N.*82044
S/062/60/000/02/08/012
B003/B066

5.3200

AUTHORS: Dolgoplosk, B. A., Yerusalimskiy, B. L., Kuren'gina, T. N.,
Tinyakova, Ye. I.TITLE: Reactions of Free Radicals in Solutions. 15th Report.
Destruction Mechanism of Polymers by Free RadicalsPERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,
1960, No. 2, pp. 311 - 316TEXT: The authors investigated the destruction of polyisobutylene dissolved in ethyl benzene under the action of disulfides, benzoyl peroxide, isopropyl benzene-hydroperoxide, triazenes, dimethyl-diphenyl-tetrazene, iron- and cobalt naphthenate. The destructive effect of the individual agents may be seen from the diagrams in Figs. 1, 2, and 3. The following conclusions may be drawn from the investigations and pertinent papers by other authors: The destructive effect is most intense in such free radicals as are especially active in the reaction of H-separation. The destruction takes place in such a manner that first a H-atom is separated from the polymer chain and, secondly, the C-C bonds of the polymer radical

Card 1/2

P20
S/190/62/C04/C06/C06/026
B101/3110

S. S. D.
AUTHORS: Tinjakova, Ye. I., Dolgoplosk, B. A., Kuren'gina, T. N.

TITLE: Polymerization under the action of catalytic systems containing cobalt or tungsten carbonyls and diethyl aluminum halide

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 6, 1962,
628-634

TEXT: The authors investigated the catalytic effect of the precipitate formed when $\text{Co}(\text{CO})_4$ or $\text{W}(\text{CO})_6$ dissolved in hydrocarbons are mixed with $\text{Al}(\text{C}_2\text{H}_5)_2\text{Cl}$. The following were polymerized with the cobalt complex (ratio carbonyl : $\text{R}_2\text{AlCl} = 1 : 5$): isoprene (20°C , 2.5 hr, polymer yield 31%), butadiene (50°C , 1.5 hr, yield 25%; 2.5 hr, yield 40%), styrene (20°C , 3 hr, 29.6%), α -methyl styrene (80°C , 42 hr, 47.2%), and α -butene (50°C , 48 hr, 7%). The investigation of the structure of butadiene polymerized with the cobalt or tungsten complexes gave the following results irrespectively of the temperature (40 - 50°C) and of the ratio Card 1/2

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Polymerization under the ...

S/190/62/C04/006/006/026
B701/3110

carbonyl : R_2AlCl (1 : 2.5 to 1 : 16): 65-87%; cis-1,4 bonds, 5-8%; trans-1,4 bonds, and 5-7% 1,2 bonds. Isoprene polymerized with the cobalt complex ($20-50^\circ C$) contained 61-62%; cis-1,4 bonds, 22-23%; trans-1,4 bonds, and 14-16% 3,4 bonds. An analysis of the precipitate formed from $Co(CO)_4$ and $Al(C_2H_5)_2Cl$ showed: ratio $Co : Al$ between 1 : 1.25 and 1 : 3; ratio $Al : Cl \sim 1 : 1$; ratio $CO : Co \sim 1$; ratio $C_2H_5 : Al \sim 1 : 1$. Since no gases are released during the formation of the precipitate, a reaction of CO with $Al(C_2H_5)_2Cl$ is assumed, similar to that occurring with organolithium and organomagnesium compounds. The absorption of CO by $Al(C_2H_5)_2Cl$ and the formation of sec-amyl alcohol were proved experimentally. The

formula: $CoCO \cdot AlR_2Cl \cdot R_2C \begin{array}{c} OAl(R)Cl \\ | \\ Al(R)Cl \end{array}$ is suggested for the catalytic complex.

There are 1 figure and 3 tables.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy AN SSSR (Institute of High-molecular Compounds AS USSR)
SUBMITTED: April 1, 1961
Card 2/2

TINYAKOVA, Ye.I.; ZHURAVLEVA, T.G.; KUREN'GINA, T.N.; KIRIKOVA, N.S.;
DOLGOPLOSK, B.A.

Cation activity of components of complex catalysts. Dokl.AN SSSR
144 no.3:592-595 My '62. (MIRA 15:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. 2. Chlen-
korrespondent AN SSSR (for Dolgoplosk).
(Catalysts) (Polymerization) (Cations)

ACC NR: AP7000336

SOURCE CODE: UR/0413/66/000/022/0094/0094

INVENTOR: Gorin, Yu. A.; Charakaya, K. N.; Rodina, E. I.; Kropachev, V. A.;
Alferova, L. V.; Kuren'gina, T. N.

ORG: none

TITLE: Preparative method for elastic tetrahydrofuran copolymers. Class 39,
No. 188670 [announced by the All-Union Sceintific Research Institute of Synthetic
Rubber im. Akademician S. V. Lebedev (Vsesoyuznyy nauchno-issledovatel'skiy institut
sinteticheskogo kauchuka); Institute of Macromolecular Compounds AN SSSR (Institut
vysokomolekulyarnykh soyedineniy AN SSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 94

TOPIC TAGS: elastic copolymer, bulk copolymerization, tetrahydrofuran copolymer, ...
readily curable copolymer, Copolymer, Copolymerization

ABSTRACT: An Author Certificate has been issued for a method of preparing elastic
copolymers of tetrahydrofuran with oxacyclobutane or organic oxides by bulk co-
polymerization in the presence of diethyl zinc hydrolyzates or of a system, con-
sisting of aluminumalkyl hydrolyzates and oxacyclobutane derivatives. To produce
vulcanization, the method provides for the copolymerization of the above-
mentioned monomers in the presence of unsaturated epoxy compounds (e.g., alkyl-1-pro-
panol or butadiene epoxide) as the third monomer. 5107

SUB CODE: 11, 07/ SUBM DATE: 05Jul63/ ATD PRESS/ UDC1 678.83:66. .062.785
Card 1/1

SCHERBINA, V.V., redaktor, doktor geologo-mineralogicheskikh nauk; KUREJKINA,
I. Ye. [translator]

[Rare elements in ingeous rocks and minerals; collected articles] Redkie
elementy v izvershennykh gornykh porodakh i mineralakh; sbornik statei.
Perevod s angliiskogo i nemetskogo I.E.Kurenkinoi [i dr.] Moskva, Izd-vo
inostrannoi lit-ry, 1952. 399 p. (MLRA 6:5)
(Rocks, Ingeous) (Mineralogy) (Earths, Rare)

BOLDYREV, G.P.; VOGMAN, D.A.; NOVOKHATSKIY, I.P.; VERK, D.L.; DYUGAYEV, I.V.; KAVUN, V.M.; KURENKO, A.A.; UZBEKOV, M.R.; ARSEN'YEV, S.Ya.; YEGORKIN, A.N.; KORSAKOV, P.F.; KUZ'MIN, V.N.; STREETS, B.A.; PATKOVSKIY, A.B.; BOLESLAVSKAYA, B.M.; INDENBOM, D.B.; FINKELSHTEYN, A.S.; SHAPIRO, I.S.; LAPIN, L.Yu.. Prinimali uchastiye: NEVSKAYA, O.I.; FEODOSEYEV, V.A.; KASPILOVSKIY, Ya.B., ZERNOVA, K.V.. BARDIN, I.P., akademik, otv.red.; SATPAYEV, K.I., akademik, nauchnyy red.; STRUMILIN, akademik, nauchnyy red.; ANTIPOV, M.I., nauchnyy red.; BELYANCHIKOV, K.P., nauchnyy red.; YEROFEYEV, B.N., nauchnyy red.; KALGANOV, M.I., nauchnyy red.; SAMARIN, A.M., nauchnyy red.; SLEDZYUK, P.Ye., nauchnyy red.; KHLEBNIKOV, V.B., nauchnyy red.; STREYS, N.A., nauchnyy red.; BANKVITSER, A.L., red.izd-va; POLIAKOVA, T.V., tekhn.red.

[Iron ore deposits in central Kazakhstan and ways for their utilization] Zhelezorudnye mestorozhdeniya TSentral'nogo Kazakhstana i puti ikh ispol'zovaniia. Otvetstvennyi red. I.P.Bardin. Moskva, 1960. 556 p.

(MIRA 13:4)

1. Akademiya nauk SSSR. Mezhdunodomstvennaya postoyannaya komissiya po zhelezru. 2. Gosudarstvennyy institut po proyektirovaniyu gornykh predpriyatiy zhelezorudnoy i marginalsevoy promyshlennosti i promyshlennosti nemetallicheskikh iskopayemykh (Giproruda) (for Boldyrev, Vogman, Arsen'yev, Yegorkin, Korsakov, Kuz'min, Strelets,
(Continued on next card)

BOLDYREV, G.P.--(continued). Card 2.

3. Institut geologicheskikh nauk AN Kazakhskoy SSR (for Novokhatkiy).
4. TSentral'no-Kazakhstanskoye geologicheskoye upravleniye Ministerstva geologii i okhrany nedor SSSR (for Verk, Dyugayev, Kavun, Kurenko, Uzbekov). 5. Nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki poleznykh iskopayemykh (Mikhanobr) (for Patkovskiy). 6. Gosudarstvennyy institut proyektirovaniya metallurg. zavodov (Gipromes) (for Boloslavskaya, Indenbom, Finkel'shteyn, Nevezkaya, Fedoneyev, Karpilovskiy). 7. Mezhdurechennaya postoyannaya komissiya po zhelezu AN SSSR (for Shapiro, Zernova, Kalganov). 8. Gosplan SSSR (for Lapin).
(Kazakhstan-Iron ores)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927710009-6

KURENKOV, A., inzhener.

Vinyl plastic lining for chromium plating tanks. Grazhd.av.13 no.6:
20-21 Je '56. (Vinyl polymers) (MIRA 9:9)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927710009-6"

KURENKOV, A. F.

Kurenkov, A. F. - "Building with prestressed reinforced concrete, processed for bending",
Sbornik trudov Studench. nauch.-tekhn. o-vn (Moak. inzh.-stroit. in-t im. Kuybysheva),
Moscow, 1949, p. 63-83.

SO: U-411, 17 July 53, (Letopis 'nykh Statey, No. 20, 1949).

KUREKOV, A. F.

"Experimental Investigation of the Effect of the Temperature Factor on the Work of the Shaft of Reinforced-Concrete Smoke Stacks." Sub 20 Nov 51, Moscow Order of the Labor Red Banner construction Engineering Inst imeni V. V. Kuybyshev.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

SOV/124-58-8-9279

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 132 (USSR)

AUTHOR: Kurenkov, A.F.

TITLE: The Effect Exerted by the Vertically Nonuniform Heating of a Section on the Development of Cracks in a Reinforced-concrete Element (Vliyanie neravnomernogo po vysote secheniya nagревa na treshchinoobrazovaniye v zhelezobetonnom elemente)

PERIODICAL: Nauchn. zap. Poltavsk. in-t inzh. s.-kh. str.-va, 1956, Nr 3, pp 186-193

ABSTRACT: The author investigates the cause of the development of cracks in rigidly restrained rectangular reinforced-concrete beams when they are subjected to uneven heating on an unreinforced face. A measurement is made of the bending moment needed to remove the compression strains on the fibers on that face of the beam not subjected to direct heating. From the magnitude of said bending moment it is possible to determine the compressive stresses that will act upon the fibers of a beam restrained from undergoing deformation when the beam is subjected to heating. Comparing these stresses with those arrived at theoretically for the case of unreinforced beams (in

Card 1 2

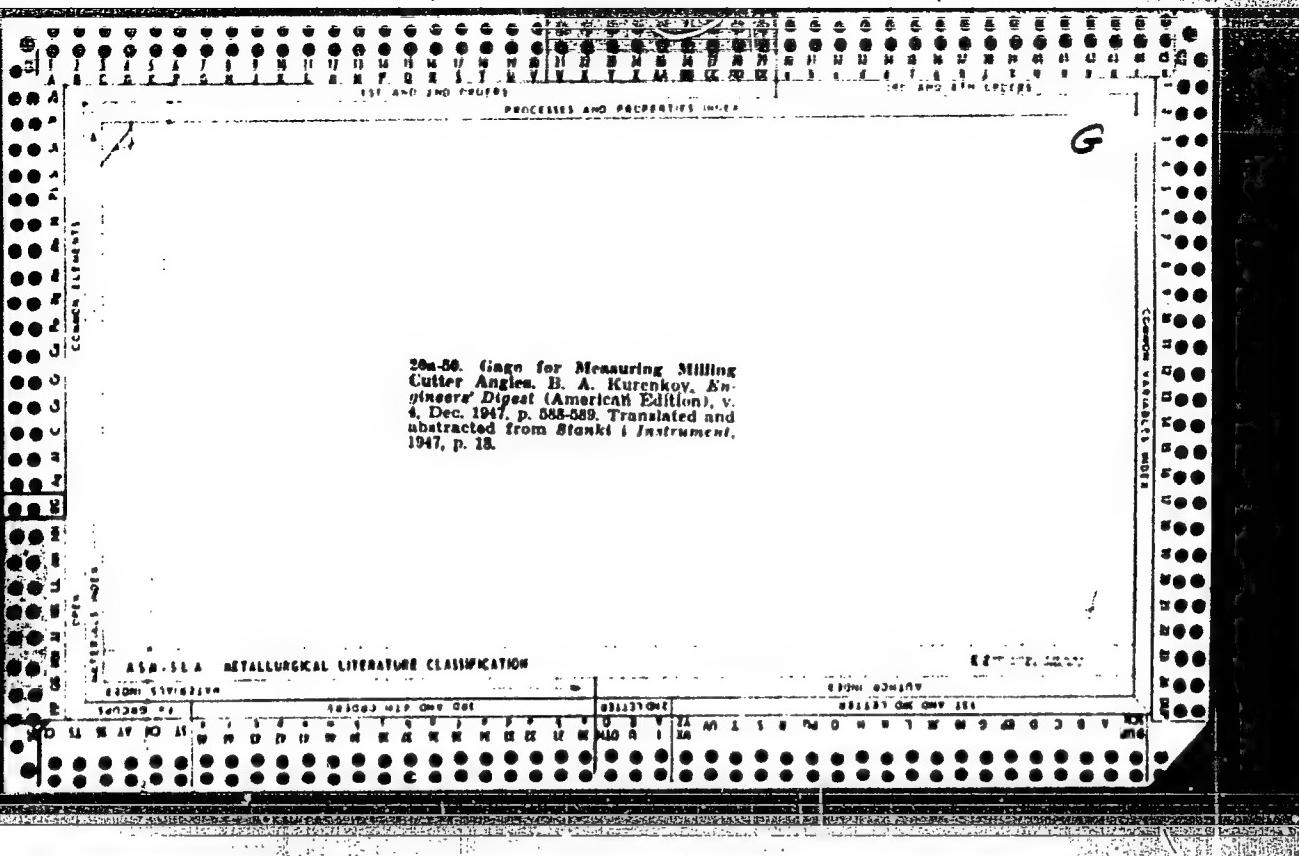
SOV/124-58-8-9279

The Effect Exerted by the Vertically Nonuniform Heating (cont.)

accordance with the plane-section hypothesis), the author concludes that the results obtained in either case are virtually of the same order of magnitude. On the basis of this he deems it possible to determine the magnitude of those temperature differences at which the tensile stresses present near the axis of the heated elements reach the tensile-strength limit of the concrete, and he believes himself entitled to assert that the development of cracks is associated with the initial rise in temperature. The roundabout manner in which the experimental results are used tends to render the paper unconvincing.

V.A. Gastev

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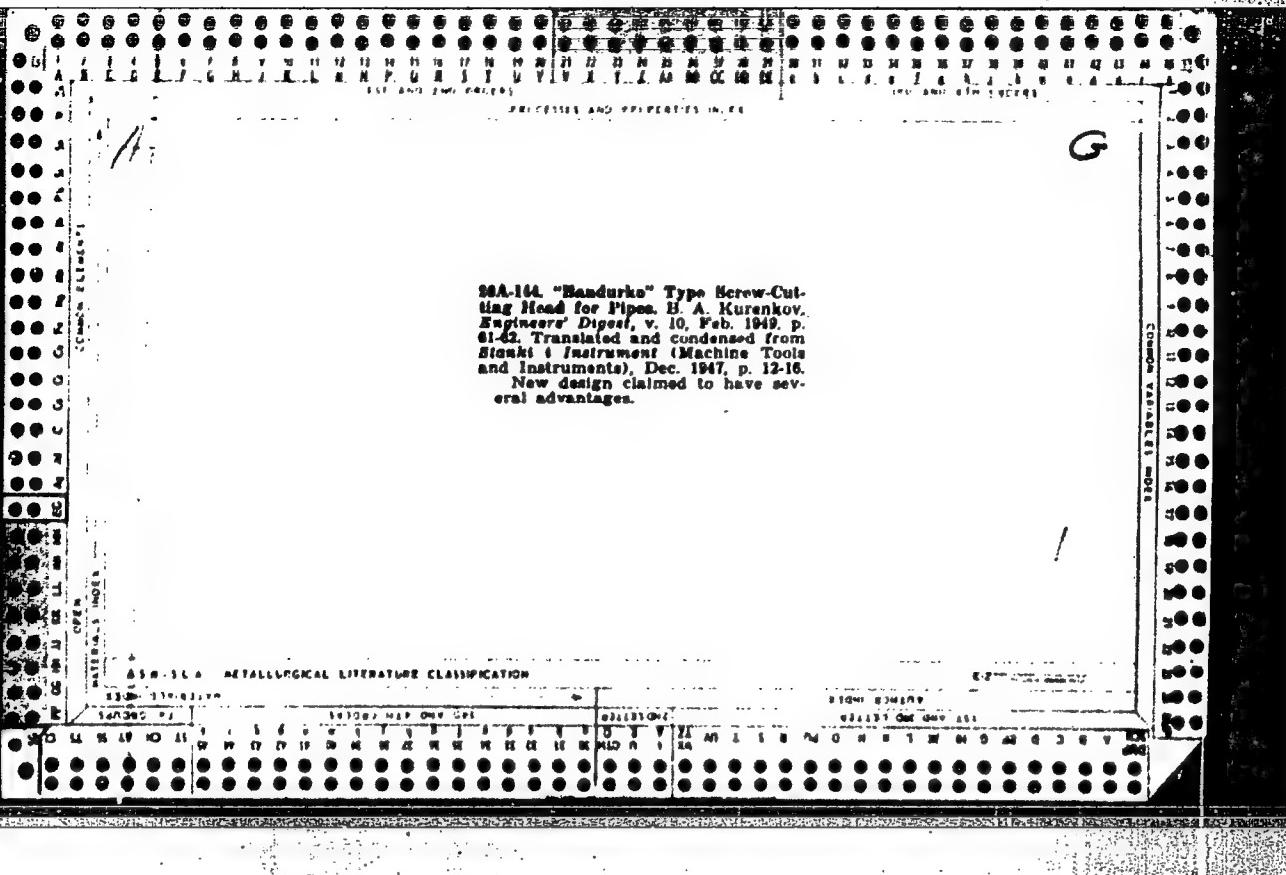
KUVENKOV, B.A.

Novye instrumenty. (Vestn. Mash., 1949, no. 6, p. 58-59)

New cutting tools.

DLC: TN4:v4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress , 1953.



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CIA-RDP86-00513R000927710009-6

KURENKOV, B. A.

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No. 9, 1951.

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(MLRA 6:6)
(Machinery)

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KURENKO, B.A.

New instruments for measurement of lengths. Izm.tekh.no.5:80-94
S-O '56. (MIRA 10:2)
(Measuring instruments) (Length measurement)

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KURENKOV, B.A.

New designs of cutting tools. Stan. i instr. 29 no.3:30-33 Mr
'58. (MIRA 12:1)
(Metal-cutting tools)

KURENKOV, B.A.

Work of the Technical Economic Committee of the Moscow Province
Economic Council. Biul.tekh.-ekon.inform. no.12:84-85 '61.

(MIRA 14:12)
(Moscow Province--Economic councils)

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(MIRA 15:7)
(Electronics)

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Moscow Province Economic Council. Biul.tekh.-ekon.inform.Gos.-
nauch.-issl.inst.nauch.i tekhn.inform. no.11:94-96 '62. (MIRA 15:11)
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KURENKOV, F.F.

Advice regarding operation of mercury-arc rectifiers of N60
a.c. electric locomotives. Elek. i tepl. tiaga 4 no. 1:11-12
Ja '60.
(MIRA 13:4)

1. Mashinist-instruktor elektrovozov peremennogo toka depo
Ozherel'ye.
(Electric current rectifiers) (Electric locomotives)